

FILE ID LBRUSR

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PRE

{ LBRUSR.MDL
Version V02-014

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* MODIFIED BY:

V02-014	PCG0004 Add HELP flag to HLP.	Peter George	07-Jan-1982
V02-013	PCG0003 Add LIBLIST and NOTTERM flag to HLP.	Peter George	09-Dec-1981
V02-012	RPG0112 Support lower cased keywords	Bob Grosso	11-Aug-1981
V02-011	RPG0037 Add <u>cre\$C_vmsv2</u> .	Bob Grosso	20-Jul-1981
V02-010	RPG0036 Add <u>lbr\$L_oldhdrptr</u> .	Bob Grosso	15-Jul-1981
V02-009	RPG0035 Change <u>lhi\$w_*luhrec</u> to <u>lhi\$L_*luhrec</u> .	Bob Grosso	1-Jul-1981
V02-008	RPG0034 Change <u>lhi\$L_*luhrec</u> to <u>lhi\$w_*luhrec</u> . Change <u>lbr\$C_maxluhlen</u> to <u>lbr\$C_maxluhrec = 32768</u> .	Bob Grosso	18-Jun-1981
V02-007	PCG0002 Add PMPTDEF flag to HLP.	Peter George	19-May-1981
V02-006	PCG0001 Add <u>lbr\$output_help</u> stuff.	Peter George	08-May-1981

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V02-005      RPG0033      Bob Grosso    10-Apr-1981
  Add lbr$C_maxkeylen, lhi$L_maxluhrec, lhi$L_numluhrec,
  lhi$L_libstatus and cre$L_luhmax.

V02-004      RPG0025      Bob Grosso    20-Mar-1981
  Add lbr$C_maxidxrd

V02-003      RPG0016      Bob Grosso    25-Feb-1981
  Rename lbr$C_mtcbufsiz to lbr$C_putbufsiz

V02-002      RPG0012      Bob Grosso    19-Jan-1981
  Add lbr$flush operation codes, and sizes for the buffers to
  empty the cache.

V02-001      BLS0029      Benn Schreiber 22-Dec-1980
  Add shareable image symbol table type.

```

Librarian control table

module \$LBRCTLTBL;

```

aggregate LBRCTLTBL structure prefix LBR$;
  ID byte unsigned;                      /* Control table ID
  constant CTLTBLID equals 203  prefix LBR tag $C; /* Ident for control table
  TBLISIZ byte unsigned;                  /* Control table size
  TYPE byte unsigned;                    /* Type of library opened
  FUNC byte unsigned;                   /* Operation (function) requested
  FILL 1 byte dimension 2 fill prefix LBRCTLTBL tag $$; /* Reserved extra bytes
  USRFLG OVERLAY union;
    USRFLG longword unsigned;           /* Flags longword
    USRFLG BITS structure;
      LOCATE bitfield mask;            /* Use "locate" rather than "move" mode
      OPEN bitfield mask;              /* Library open
    end USRFLG BITS;
  end USRFLG_OVERLAY;
  HDRPTR longword unsigned;             /* Pointer to in-core header
  CTXPTR longword unsigned;             /* Pointer to context control block
  CURIDX longword unsigned;            /* Number of current index
  USRNAM longword unsigned;            /* Pointer to user NAM block
  OLDHDRPTR longword unsigned;         /* Pointer to unmodified in-core header block
  constant 'LENGTH' equals . prefix LBR$ tag K;
  constant 'LENGTH' equals . prefix LBR$ tag C;

```

end LBRCTLTBL;

end_module \$LBRCTLTBL;

module \$MHDEF;

```

/*
/* Module header
/*

```

```

aggregate MHDDEF structure prefix MHDS;
    LBRFLAG byte unsigned; /* Librarian-controlled flag byte
    ID byte unsigned; /* Ident
    constant MHDID equals 173 prefix MHD tag $C; /* Value that must be in the ident
    FILL 1 word fill prefix MHDDEF tag $$; /* Reserved word
    REFCNT longword unsigned; /* Reference count
    constant REFLNG equals . prefix MHDS tag K; /* Length of record to end of ref count
    constant REFLNG equals . prefix MHDS tag C; /* Length of record to end of ref count
    constant INSTIME equals . prefix MHDS tag K; /* Label for start of insert time
    constant INSTIME equals . prefix MHDS tag C; /* Label for start of insert time
    DATIM longword unsigned; /* Date/time inserted
    FILL 2 OVERLAY union;
        FILL 2 longword fill prefix MHDDEF tag $$; /* ...
        constan USRDAT equals . prefix MHDS tag K; /* Start of user additional header data
        constant USRDAT equals . prefix MHDS tag C; /* Start of user additional header data
        FILL 2 FIELDS structure;
            FILL 3 byte dimension 4 fill prefix MHDDEF tag $$;
            USRDAT character length 0 tag B; /* Start of user additional header data
            constant MHDLEN equals . prefix MHDS tag K; /* Length of fixed part of MHD
            constant MHDLEN equals . prefix MHDS tag C; /* Length of fixed part of MHD
        end FILL 2 FIELDS;
    end FILL 2 OVERLAY;
    OBJSTAT OVERLAY union;
        OBJSTAT byte unsigned; /* Status of object module
        OBJSTAT BITS structure;
            SELSRC bitfield mask; /* Selective search
            OBTIR bitfield mask; /* Module contains TIR records
        end OBJSTAT BITS;
    end OBJSTAT OVERLAY;
    OBJIDLNG OVERLAY union;
        OBJIDLNG byte unsigned; /* Length of ident
        OBJIDLNG_FIELDS structure;
            FILL 4 byte fill prefix MHDDEF tag $$;
            OBJIDENT character length 0 tag T; /* Object module ident
            constant OBJIDENT equals . prefix MHDS tag K;/*
            constant OBJIDENT equals . prefix MHDS tag C;/*
        end OBJIDLNG FIELDS;
    end OBJIDLNG_OVERLAY;
end MHDDEF;

end_module $MHDDEF;

module $SHLPDEF;

/*
/* Data structures for help processing
*/

```

```

aggregate HLPDEF union prefix HLPS;
    HLPDEF BITS structure;
        PROMPT bitfield mask; /* Prompting enabled
        PROCESS bitfield mask; /* Process logical name table searches enabled

```

```

GROUP bitfield mask;
SYSTEM bitfield mask;
LIBLIST bitfield mask;
HELP bitfield mask;
SPARE1 bitfield mask;
SPARE2 bitfield mask;

PAGE bitfield mask;
OUTPUT bitfield mask;
LIBRARY bitfield mask;
ALL bitfield mask;
PAGEDEF bitfield mask;
PMPTDEF bitfield mask;
NOTTERM bitfield mask;
end HLPDEF_BITS;
end HLPDEF;

aggregate HLPDEF1 structure prefix HLPS;
DESC longword unsigned; /* Address of string descriptor for line
FLAGS OVERLAY union;
FLAGS longword unsigned; /* Flags
FLAGS BITS structure:
NOHLPTXT bitfield mask; /* Line is part of text due to no help found
KEYNAMLIN bitfield mask; /* Line contains keynames to be printed
OTHERINFO bitfield mask; /* Line is part of 'other info available'
end FLAGS BITS;
end FLAGS_OVERLAY;
DATA longword unsigned; /* Address of user data passed to GET_HELP
LEVEL longword unsigned; /* Level of this help
end HLPDEF1;

end_module $HLPDEF;

module $LBRDEF;
/*
/* Types of libraries
*/

constant TYP_UNK      equals 0  prefix LBR tag $C; /* Define the library types
constant TYP_OBJ       equals 1  prefix LBR tag $C; /* Unknown/unspecified library type
constant TYP_MLB       equals 2  prefix LBR tag $C; /* Object/shareable image library
constant TYP_HLP       equals 3  prefix LBR tag $C; /* Macro library
constant TYP_TXT       equals 4  prefix LBR tag $C; /* Help file library
constant TYP_SHSTB     equals 5  prefix LBR tag $C; /* TEXT library
constant TYP_DECMX     equals 5  prefix LBR tag $C; /* Shareable image symbol library
constant TYP_RDEC       equals 127 prefix LBR tag $C; /* Maximum Digital library type defined
constant TYP_USRLW     equals 128 prefix LBR tag $C; /* Types between DECMX and RDEC are
constant TYP_USRHI     equals 255 prefix LBR tag $C; /* reserved to Digital
                                                       /* User library types range from 128
                                                       /* to 255.

/*
/* Function codes for lbr$flush
*/

```

```

constant FLUSHDATA      equals 1  prefix LBR tag $C; /* Flush data blocks from cache
constant FLUSHALL       equals 0  prefix LBR tag $C; /* Flush data blocks, then index blocks

/*
/* Librarian fixed parameters
*/
constant MAXRECSIZ     equals 2048 prefix LBR tag $C; /* Maximum record size allowed
constant PAGESIZE       equals 512  prefix LBR tag $C; /* Size of memory page
constant HASHSIZE       equals 512  prefix LBR tag $C; /* Size of hash table ** Must be power of 2 **
constant TEXTPAGE       equals 508  prefix LBR tag $C; /* No. of useable bytes on a text page
constant DEXTQ          equals 50  prefix LBR tag $C; /* Library default extend quantity
constant MAXCTL          equals 16 prefix LBR tag $C; /* Maximum number of open libraries
constant MAXHDRSIZ      equals 128 prefix LBR tag $C; /* Maximum length of module header
/* (max user length is:
/*   lbr$C_maxhdrsiz-mhd$C.length)
constant DEFENTALL     equals 300 prefix LBR tag $C; /* Number of entries to allocate by default
constant RETRYOPEN      equals 30  prefix LBR tag $C; /* Number of times to retry open on RMS$_FLK
constant RETRYWAIT      equals 1   prefix LBR tag $C; /* Number of seconds to wait between retries
constant MINREAD        equals 2   prefix LBR tag $C; /* Minimum number of blocks to read
constant MAXREAD         equals 50  prefix LBR tag $C; /* Max blocks can ever read
constant MEMXTRA         equals 50  prefix LBR tag $C; /* Number blocks to expand region by above and beyond lbr$gl_maxread
constant PUTBUFSIZ      equals 30  prefix LBR tag $C; /* Block size of VM empty cache buffer
constant FLSHBFPSIZ     equals 1   prefix LBR tag $C; /* Block size of stack mt cache buffer
constant MAXIDXRD       equals 20  prefix LBR tag $C; /* Maximum blocks in one index read
constant MAXKEYLEN      equals 128 prefix LBR tag $C; /* Maximum length of an ASCII keyword, at most N, where
/* 3*(N+7) < or = 506
constant MAXLUHREC      equals 32768 prefix LBR tag $C; /* maximum library update history record length

```

```

/*
/* LBR$INI_CONTROL argument list
*/

```

```

aggregate LBRDEF structure prefix LBRS;
F_LL 1 longword fill prefix LBRDEF tag $S;
IC_CTLTBL longword unsigned;           /* Argument count
IC_FUNC longword unsigned;           /* Control index address
constant CREATE    equals 0  prefix LBR tag $C; /* Function
constant READ      equals 1  prefix LBR tag $C; /* Create a new library
constant UPDATE    equals 2  prefix LBR tag $C; /* Read an existing library
constant MAXFUNC   equals 2  prefix LBR tag $C; /* Update an existing library
IC_TYPE longword unsigned;           /* Maximum legal function
                                         /* Type of library expected to open

```

```

/*
/* LBR$OPEN argument list
*/

```

```
end LBRDEF;
```

```

aggregate LBRDEF1 structure prefix LBRS;
FILL 2 longword fill prefix LBRDEF tag $S;
OP_CTLTBL longword unsigned;           /* Argument count
OP_FNS longword unsigned;             /* Control index address
OP_CREOPT longword unsigned;          /* Address of string descriptor for filename
OP_DNS longword unsigned;             /* Address of create options array
OP_RLFNA longword unsigned;           /* Address of descriptor for default name string
                                         /* Address of NAM block for related file

```

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OP_RNS longword unsigned;
OP_RNSLEN longword unsigned;
/* Address of descriptor for related filename string
   Address of longword to store resultant filename string length

/*
/* LBR$CLOSE argument list
*/
end LBRDEF1;

aggregate LBRDEF2 structure prefix LBR$;
FILL_3 longword fill prefix LBRDEF tag $$;
CL_CTLTBL longword unsigned;
/* Argument count
   Control index address

/*
/* LBR$GET_HEADER argument list
*/
end LBRDEF2;

aggregate LBRDEF3 structure prefix LBR$;
FILL_4 longword fill prefix LBRDEF tag $$;
GH_CTLTBL longword unsigned;
GH_RETRY longword unsigned;
/* Argument count
   Address of Control index
   Address of 128-longword array for return info

/*
/* LBR$SET_INDEX argument list
*/
end LBRDEF3;

aggregate LBRDEF4 structure prefix LBR$;
FILL_5 longword fill prefix LBRDEF tag $$;
SI_CTLTBL longword unsigned;
SI_IDXNUM longword unsigned;
/* Argument count
   Control index address
   Address of index number

/*
/* LBR$LOOKUP_KEY argument list
*/
end LBRDEF4;

aggregate LBRDEF5 structure prefix LBR$;
FILL_6 longword fill prefix LBRDEF tag $$;
LK_CTLTBL longword unsigned;
LK_KEYNAM longword unsigned;
LK_TXTRFA longword unsigned;
/* Argument count
   Control index address
   Address of string descriptor or binary value
   Address of quadword to return RFA if found

/*
/* LBR$INSERT_KEY argument list
*/
end LBRDEF5;

aggregate LBRDEF6 structure prefix LBR$;
FILL_7 longword fill prefix LBRDEF tag $$;
LK_CTLTBL longword unsigned;
/* Argument count
   Control index address

```

```

/* KEYNAM longword unsigned;          /* Address of string descriptor or binary value
IK_TXRFA longword unsigned;        /* Address of RFA of text

/*
/* LBR$REPLACE_MOD argument list
*/

/*      F      .L.1
/*      F      RM_CTLTBL,L    /* Argument count
/*      F      RM_KEYNAM,L   /* Control index address
/*      F      RK_TXRFA,L   /* Address of string descriptor or binary value
/*      P      1              /* RFA of new text

/*
/* LBR$REPLACE_KEY argument list
*/
end LBRDEF6;

aggregate LBRDEF7 structure prefix LBR$;
FILL 8 longword fill prefix LBRDEF tag $$;
RK_CTLTBL longword unsigned;          /* Argument count
RK_KEYNAM longword unsigned;         /* Control index address
RK_OLDRFA longword unsigned;        /* Address of string descriptor or binary value
RK_NEWRFA longword unsigned;        /* Address of RFA of old text
/* Address of RFA of new text

/*
/* LBR$DELETE_KEY argument list
*/
end LBRDEF7;

aggregate LBRDEF8 structure prefix LBR$;
FILL 9 longword fill prefix LBRDEF tag $$;
DK_CTLTBL longword unsigned;          /* Argument count
DK_KEYNAM longword unsigned;         /* Control index address
/* Address of string descriptor or binary value

/*
/* LBR$DELETE_DATA argument list
*/
end LBRDEF8;

aggregate LBRDEF9 structure prefix LBR$;
FILL 10 longword fill prefix LBRDEF tag $$;
DD_CTLTBL longword unsigned;          /* Argument count
DD_TXRFA longword unsigned;          /* Control index address
/* Address of RFA to delete from

/*
/* LBR$GET_RECORD argument list
*/
end LBRDEF9;

aggregate LBRDEF10 structure prefix LBR$;
FILL 11 longword fill prefix LBRDEF tag $$;
GR_CTLTBL longword unsigned;          /* Argument count
GR_BUFDIS longword unsigned;         /* Control index address
/* Address of descriptor of buffer

```

```
GR_BUFLEN longword unsigned;           /* Address of longword to return record size
/* LBR$PUT_RECORD argument list
/*
end LBRDEF10;

aggregate LBRDEF11 structure prefix LBR$;
    FILL 12 longword fill prefix LBRDEF tag SS;
    PR_CTLTBL longword unsigned;          /* Argument count
    PR_BUFDES longword unsigned;         /* Control index address
    PR_TXTRFA longword unsigned;         /* Address of descriptor of buffer to output
                                         /* Address of quadword to return RFA
                                         /* of text record

/* LBR$PUT_END argument list
/*
end LBRDEF11;

aggregate LBRDEF12 structure prefix LBR$;
    FILL 13 longword fill prefix LBRDEF tag SS; /* Argument count
    PE_CTLTBL longword unsigned;             /* Control index address

/* LBR$SEARCH argument list
/*
end LBRDEF12;

aggregate LBRDEF13 structure prefix LBR$;
    FILL 14 longword fill prefix LBRDEF tag SS;
    SR_CTLTBL longword unsigned;          /* Argument count
    SR_IDXNUM longword unsigned;         /* Control index address
    SR_RFA longword unsigned;            /* Address of index number
    SR_USRTN longword unsigned;          /* Address of RFA to search index for
                                         /* User routine to call on match

/* Argument list for user routine called by LBR$SEARCH
/*
end LBRDEF13;

aggregate LBRDEF14 structure prefix LBR$;
    FILL 15 longword fill prefix LBRDEF tag SS;
    SU_KEYDES longword unsigned;          /* Argument count
    SU_TXTRFA longword unsigned;          /* Address of string descriptor or binary value
                                         /* Address of array containing rfa of module

/* LBR$GET_INDEX argument list
/*
end LBRDEF14;

aggregate LBRDEF15 structure prefix LBR$;
```

```
FILL 16 longword fill prefix LBRDEF tag $$;      /* Argument count
GI_CTLTBL longword unsigned;                   /* Control index address
GI_IDXNUM longword unsigned;                   /* Index number
GI_USRTN longword unsigned;                   /* User routine to call for each entry
/* Argument list for user routine called by LBR$GET_INDEX
/*
end LBRDEF15;

aggregate LBRDEF16 structure prefix LBRS;
FILL 17 longword fill prefix LBRDEF tag $$;      /* Argument count
GU_KEYADR longword unsigned;                   /* Address of descriptor or binary value
GU_TXTRFA longword unsigned;                   /* RFA of associated text
/*
/* LBR$ADD_UPDATE argument list
/*
end LBRDEF16;

aggregate LBRDEF17 structure prefix LBRS;
FILL 18 longword fill prefix LBRDEF tag $$;      /* Argument count
AU_CTLTBL longword unsigned;                   /* Control index address
AU_FLAGS longword unsigned;                   /* Flags
AU_KEYNAM longword unsigned;                   /* Address of string descriptor or binary value
constant ADDMOD    equals 1  prefix LBR tag $C; /* Types of operations logged
constant DELMOD    equals 2  prefix LBR tag $C; /* Add module
constant REPMOD    equals 3  prefix LBR tag $C; /* Delete module
                                         /* Replace module
/*
/* LBR$GET_UPDATES argument list
/*
end LBRDEF17;

aggregate LBRDEF18 structure prefix LBRS;
FILL 19 longword fill prefix LBRDEF tag $$;      /* Argument count
GU_CTLTBL longword unsigned;                   /* Control index address
GU_USRTN longword unsigned;                   /* User routine to call for each update
/*
/* Argument list for user routine called by LBR$GET_UPDATES
/*
end LBRDEF18;

aggregate LBRDEF19 structure prefix LBRS;
FILL 20 longword fill prefix LBRDEF tag $$;      /* Argument list
UU_UPDESC longword unsigned;                   /* String descriptor for history line
end LBRDEF19;
end_module $LBRDEF;
```

module SLHIDEF;

```
/*
/* Library header information array offsets
/*
```

aggregate LHIDEF structure prefix LHIS:

```
TYPE longword unsigned;
NINDEX longword unsigned;
MAJORID longword unsigned;
MINORID longword unsigned;
LBRVER character length 32;
CREDAT longword unsigned;
FILL_1 longword fill prefix LHIDEF tag $$;
UPDTIM longword unsigned;
FILL_2 longword fill prefix LHIDEF tag $$;
UPDHIS longword unsigned;
FREEVBN longword unsigned;
FREEBLK longword unsigned;
NEXTRFA byte unsigned dimension 6;
RFAXTR word unsigned;
NEXTVBN longword unsigned;
FREEIDXBLK longword unsigned;
FREEIDX longword unsigned;
HIPREAL longword unsigned;
IDXBLKS longword unsigned;
IDXCNT longword unsigned;
MODCNT longword unsigned;
MHDSUZ longword unsigned;
MAXLUHREC longword unsigned;
NUMLUHREC longword unsigned;
LIBSTATUS longword unsigned;
end LHIDEF;
```

end_module SLHIDEF;

module SCREDEF;

```
/*
/* Create options table
/*
```

aggregate CREDEF structure prefix CRES;

```
TYPE longword unsigned;
KEYLEN longword unsigned;
ALLOC longword unsigned;
IDXMAX longword unsigned;
UHDMAX longword unsigned;
ENTALL longword unsigned;
LUMMAX longword unsigned;
VERTYP longword unsigned;
/* Type of library
/* (library types defined in $LBRDEF)
/* Length of keys in library
/* Initial file allocation
/* Maximum number of indices
/* Size of additional module header data
/* Number of index entries to pre-allocate
/* Number of library update history records to store
/* Version type of library to create
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constant VMSV2      equals 2  prefix CRE tag $C: /* VMS version V04-000 format
constant VMSV3      equals 3  prefix CRE tag $C: /* VMS version 3 format
IDXOPT OVERLAY union;
  IDXOPT longword unsigned;                      /* Index options
  IDXOPT BITS structure;
    NOCASECMP bitfield mask;                     /* Do not upper case the match key
    NOCASENTR bitfield mask;                     /* Do not upper case the index key when comparing with a match key
    UPCASNTRY bitfield mask;                     /* Upper case the index key when entering it into the library
end IDXOPT BITS;
constant HPCASING    equals 6  prefix CRE tag $C; /* Treat upper casing as it is for HELP libs
constant OBJCASING   equals 3  prefix CRE tag $C; /* Treat upper casing as it is for OBJECT libs
constant MACTXTCAS   equals 0  prefix CRE tag $C; /* Treat upper casing as it is for MACRO and TEXT libs
end IDXOPT_OVERLAY;
FILL_1 longword dimension 11 fill prefix CREDEF tag $$; /* Reserved 11 longwords
constant "LENGTH" equals . prefix CRES tag K;      /*
constant 'LENGTH' equals . prefix CRES tag C;      */

end CREDEF;
end_module $CREDEF;
```

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